Marcello Lienarta

Full-Stack Developer | Automation & Artificial Intelligence Systems Builder
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Experience

Independent April 2026 - Present
Freelancer Jakarta, Indonesia
- Developed custom web applications and automation solutions for independent projects and client-based use cases.
- Built scalable digital systems involving backend logic, workflow automation, and database-driven applications.

Student Council December 2024 - Present
Web Developer Jakarta, Indonesia
- Led development and maintenance of student council web systems, including content management and dashboard functionality.
- Supported website reliability and traffic handling.

Open House Event December 2025 - January 2026
System Developer + Event Leader Jakarta, Indonesia
- Developed and deployed a full-stack ticketing and participant management system for 1,000+ attendees
- Led event operations while overseeing registration workflows and database reliability during live event execution

Projects

Student Council Website | *PHP, Laravel, MySQL, HTML, CSS, JS, Vite, TailwindCSS* Link
- Developed and maintained the full-stack architecture of the student council website independently.
- Built and designed the blog system and the advanced dashboard system in the student council website.

Robotic Arm | *Arduino, PCA9685, C++, Servo Motors, Power Electronics, I2C Link* Link
- Designed and developed a 6-axis robotic arm system covering mechanical (3D CAD), electrical power architecture, and embedded control system engineering.
- Built embedded control logic for joint actuation, analog input mapping, and synchronized multi-servo operation.
- Engineered a multi-rail power distribution system for high-current servo control.

Advanced Ticketing System | *React, Laravel, MySQL, SMTP, Python* Link
- Built a full-stack event ticketing platform for 1,000+ participants
- Implemented registration validation, automated ticket delivery, and real-time event data management
- Designed backend workflows for participant tracking and operational reliability

Ignotum | *Node.js, Express.js, EJS, MongoDB* Link
- Built social media platform using Node.js and Express
- Designed an anonymous posting system and backend logic
- Implemented an advanced admin platform for accessing the database

Portfolio Site | *Node.js, Next.js, React, PostgresSQL* Link
- Developed personal portfolio using React.js
- Showcases projects and technical capabilities also made blogs and public projects system
- Implement tools such as drive-as-cdn, url-shortener, and soon learning portal

Achievements

Real-Time Event System Scalability: Developed and maintained a ticketing platform capable of handling 1000+ users and database transactions during real-time event operations, ensuring stable performance, and reliable system availability under high traffic conditions.

SEO & Search Visibility Growth: Improved website SEO performance for a student council website, achieving 21.4K impressions, 200+ search clicks, and a 1.1% CTR within 3 months.

High Web Performance Optimization: Built and optimized a Next-based portfolio website achieving 97%+ PageSpeed Insights scores across all categories.

Skills

Technical: JavaScript, React.js, Next.js, Node.js, PHP, Laravel, Python, MySQL, MongoDB, PostgreSQL, REST APIs

Automation: Workflow Automation, Bot Development, System Architecture, Process Automation, Scalable Systems, Event-based Systems

Professional and Analytical: Problem Solving, SEO, Leadership, Technical Documentation, Analytics, Copywriting